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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/577,239	02/27/2007	Simon Bates	09013.0009	4117		
22853 7590 109(28/2010) FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON. DC 20001-4413			EXAM	EXAMINER		
			SIMS, JASON M			
			ART UNIT	PAPER NUMBER		
Wilding to a good with		1631				
			MAIL DATE	DELIVERY MODE		
			09/28/2010	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/577,239 BATES ET AL.

Office A - 41 O							
Office Action Summary	Examiner	Art Unit					
	JASON M. SIMS	1631					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ddress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DV. Extensions of time may be available under the provisions of 37 CFR. 1: after SN, 60 MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v. Failure to reply with the set or extended period for reply will by statute, Any yeply received by the Office later than three months after the mailing earned patient term adjustment. See 37 CFR. 17/30FR.	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on							
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-35 is/are pending in the application.							
·- · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 1-35 are subject to restriction and/or e	election requirement.						
Application Papers							
9) The specification is objected to by the Examine							
10)☐ The drawing(s) filed on is/are: a)☐ acce							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	TO-152.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	+(d) or (f).					
 Certified copies of the priority documents 	 Certified copies of the priority documents have been received. 						
Certified copies of the priority documents	Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior	rity documents have been receive	ed in this National	Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
U . b.,							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 412)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
3) Information Disclosure Statement(s) (FTO/SB/00)	5) Notice of Informal F	atent Application					

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Formation Disclosure Statement(s) (FTO/S300)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application	
Paper No(s)/Mail Date	6) Other:	
S. Patent and Trademark Office		

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Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-20, 30, and 32 drawn to a method and system of searching for the unit cell parameters of a crystalline sold form of a compound. If this group is elected then the below summarized species elections are also required.

Group II, claim(s) 21-22, drawn to a first refinement method.

Group III, claim(s) 23-25, drawn to a second refinement method.

Group IV, claim(s) 26-27, drawn to a third refinement method.

Group V, claim(s) 28, drawn to a fourth refinement method.

Group VI, claim(s) 29, 31, and 33 drawn to a fourth refinement method and system for its implementation.

Group VII, claim(s) 34 and 35, drawn to a method for distinguishing between crystalline forms of different samples of a substance.

Lack of unity of invention may be directly evident before considering the claims in relation to any prior art, or after taking the prior art into consideration, as where a document discovered during the search shows the invention claimed in a generic or linking claim lacks novelty or is clearly obvious, leaving two or more claims joined thereby without a common inventive concept. In the instant case the special technical

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feature of the groups I - VI comprises producing or obtaining calculated X-ray powder diffraction patterns.

Sands E. Donald, at pages 153-155 teach known methods for calculating, producing X-ray powder diffraction patterns, which reads on the special technical feature. Therefore, the lack of unity is present because the linking technical feature is not a "special technical feature" as defined by PCT Rule 13.2. Because the special technical feature is known and taught in the prior art, groups I - VI lack unity of invention and thus require the instant Restriction Election.

There is no special technical feature uniting groups I-VI and group VII and thus they lack unity.

Group I Species Elections

I) This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are directed to what a Monte-Carlo algorithm generates as follows:

- A) potential unit cell solutions beginning with the highest possible symmetry as in claim 2.
- B) potential unit cell solutions beginning with the Orthorhombic symmetry as in claim 3.
- C) potential unit cell solutions beginning with the lowest possible volume as in claim 4

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D) potential unit cell solutions characterized by at least their symmetry and

multiplicity as in claim 5.

E) potential unit cell solutions characterized by at least their symmetry and

the number of molecules per asymmetric unit cell as in claim 6.

F) potential unit cell solutions characterized by at least their symmetry,

multiplicity, and the number of molecules per asymmetric unit cell as in claim 7.

G) potential unit cell solutions within the confines of estimated molecular

dimensions of the compound as in claim 9. If this group is elected then the below

summarized further specie election is required.

Applicant is required, in reply to this action, to elect a single species to which the

claims shall be restricted if no generic claim is finally held to be allowable. The reply

must also identify the claims readable on the elected species, including any claims

subsequently added. An argument that a claim is allowable or that all claims are generic

is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise require

all the limitations of an allowed generic claim.

Currently, the following claim(s) are generic: claim 1.

Group I-G Further Specie Election

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I-G) This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are directed to how the limits on lattice parameters of the potential unit cell solutions are determined as follows:

- H) The parameters are determined according to claim 10.
- I) The parameters are determined according to claim 11.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim.

Currently, the following claim(s) are generic: claim 1.

II) This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

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The species are directed to what comprises the calculation of the variance between the calculated and measured X-ray powder diffraction peak positions as follows:

- J) a first pass calculation of a crystallographic factor R1 as in claim 17.
- K) a first pass calculation of a crystallographic factor R1 below a predetermined value of R1 and further comprises additional steps as in claim 19.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim.

Currently, the following claim(s) are generic: claim 1.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species FOR EACH REQUIRED SPECIE ELECTION or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The elections of an invention or species may be made with or without traverse.

To preserve a right to petition, the election must be made with traverse. If the reply does

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not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof. Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Sims, whose telephone number is (571)-272-7540.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Marjorie Moran can be reached via telephone (571)-272-0720.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (571)-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ Jason Sims /